VERSACUT™

300 & 600

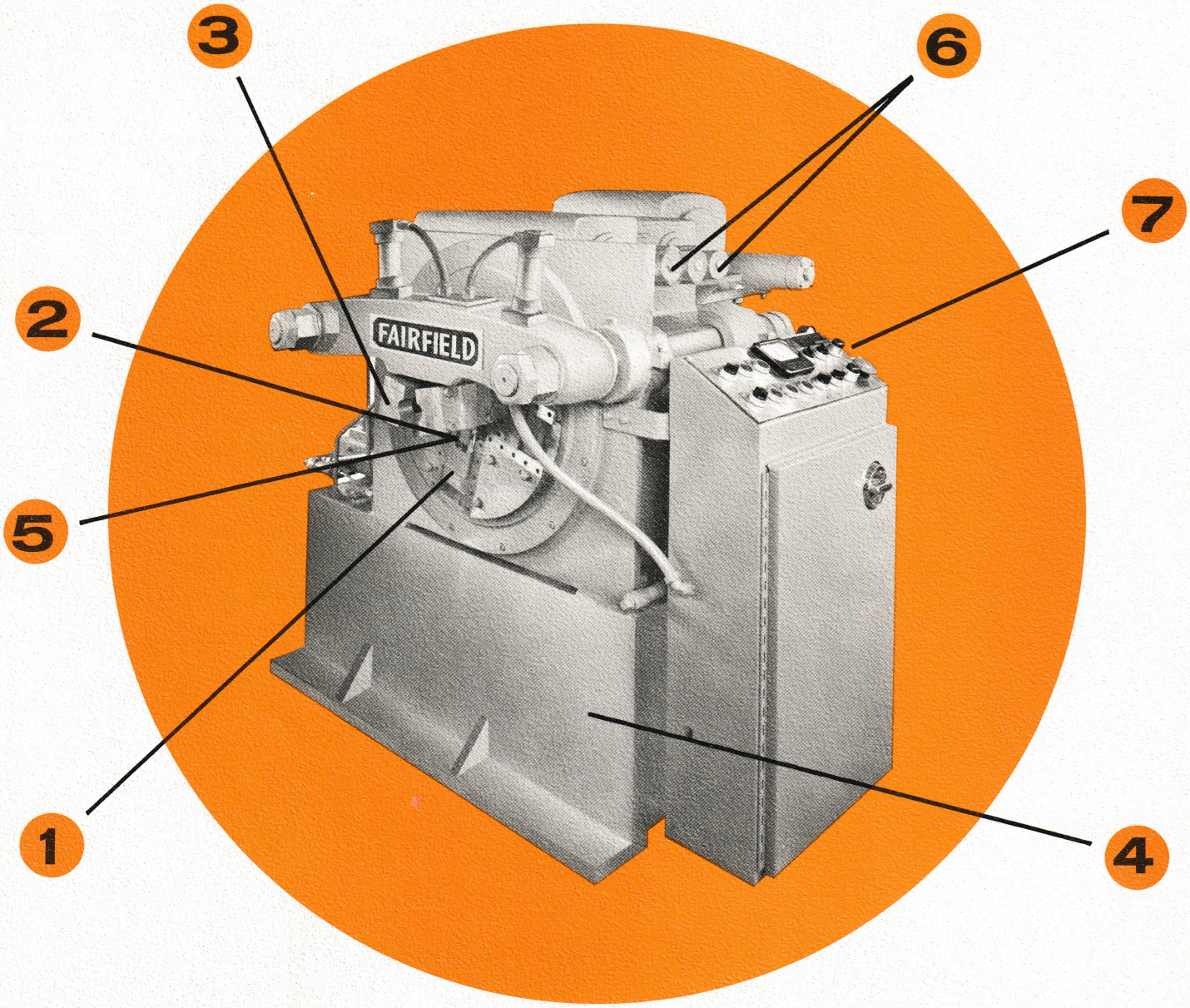
PARTING TOOL CUT-OFF AND BEVELING SYSTEM

revolutionary Versacut 300 & 600 system cuts off and bevels inside and outside diameters and completely **DEBURRS BOTH ENDS** of tubing 1/2" to 6" in diameter in 1 operation

FAIRFIELD MACHINE COMPANY, INC.
LOWER ELKTON ROAD ▾ P.O. BOX 224 ▾ COLUMBIANA, OHIO 44408

SPECIAL FEATURES OF VERSACUT* T.M. SYSTEM . . .

1. Four slide rotating cutterhead. Each pair of slides can be operated independently or simultaneously. Tube remains stationary.
2. Cam operated fully sychronized inside diameter and outside diameter beveling or deburring operation.
3. Internal collet chuck and external equalized scissor chuck are both designed to hold the part accurately on center during cut-off and beveling operations.
4. Variable speed hydraulic drive and independent hydraulic system for other operating functions is integral with machine base.
5. Simple cutoff and chamfering tools using throw away multiple edge carbide or high speed steel inserts.
6. Up-front machine adjustments for tube diameter and wall.
7. Integral control panel with pushbuttons and selector, control switches all functions in full automatic or manual mode with spindle speed indicator.
8. Optional equipment such as mist collant system, chip and crop conveyor system is available.
9. Full complement of standard tooling and special made to order tooling available.



* DOMESTIC AND FOREIGN PATENT APPLIED FOR

REDUCED COSTS

THE VERSACUT SYSTEM has the capability to produce a finished tube cut to length, with I.D. and O.D. bevels on both ends. This eliminates the secondary beveling or deburring operation generally required after the tube cutoff operation, regardless of whether the tube has been cut by shearing, sawing or parting tool cut-offs. This equipment is fully automatic and has a high speed cutoff capability due to the multiple cutoff tools used. The machine is especially advantageous when it is undesirable to rotate the tube or bar for cutoff purposes.

- **Savings in cost result from :**
  - **Less Floor Space**
    Only one machine required instead of a cutoff and a separate beveling machine.
  - **Less Man-Power**
    One operator required, whereas a secondary operation would require another operator.
  - **Less Inventory and In-process Material**
    Resulting from the elimination of the secondary operation.

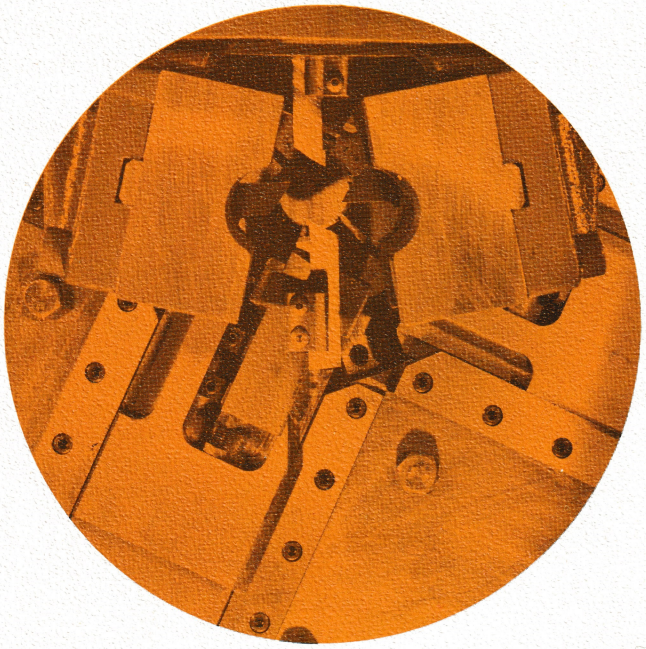
VERSATILITY

This equipment is very suitable for small or large scale production with full automatic cycle. Set up time is low and the machine is capable of cutting any diameter, wall or length, within its capability, using substantially the same tooling.

TOOLING

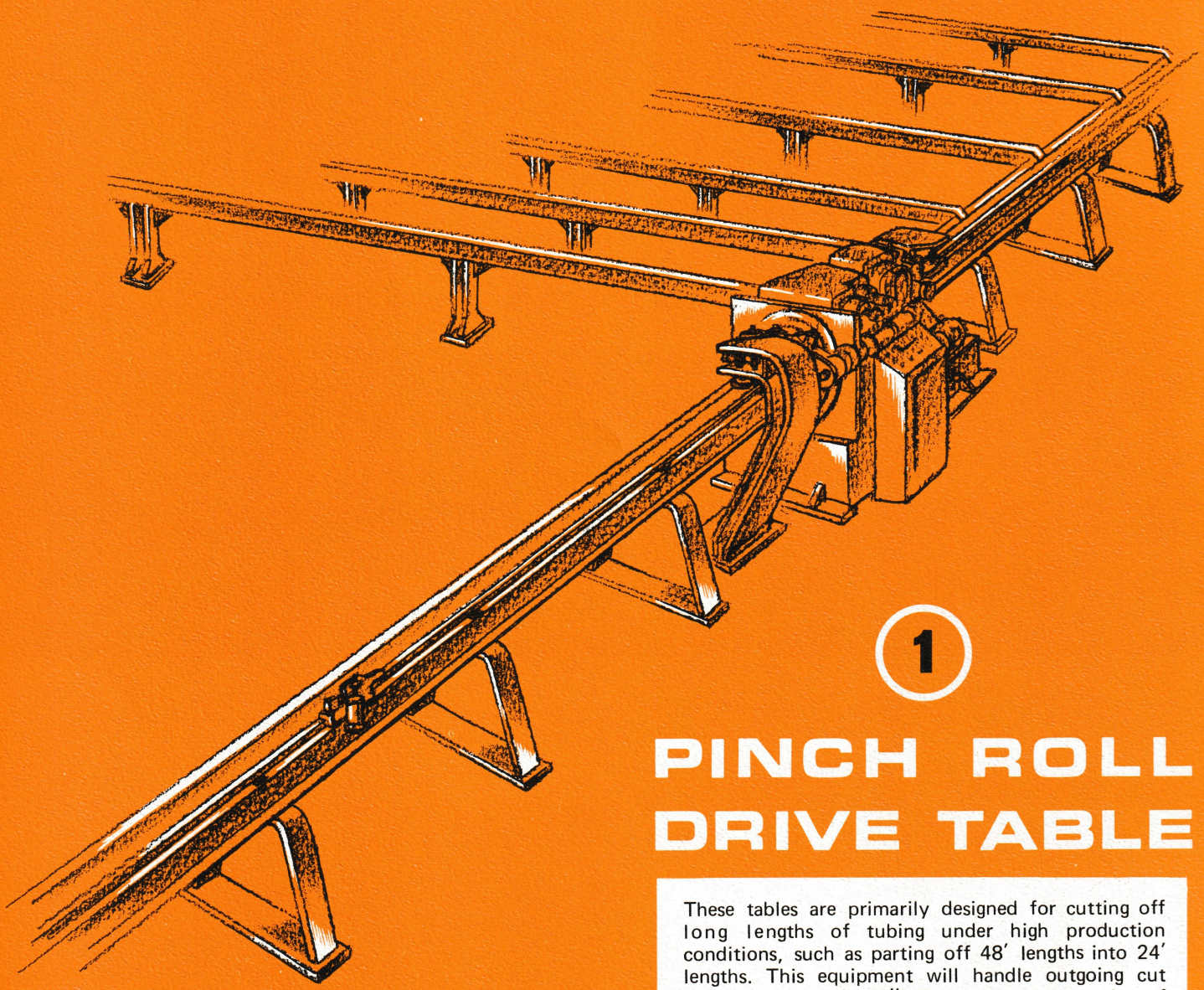
The Versacut 300 and 600 machines are equipped with simple accurate tooling. The tooling consist of precision tool holders equipped with standard commercial parting tools and chamfering cartridges. A chamfering cartridge can be used for I.D. and O.D. deburr or I.D. and O.D. chamfer. Each cartridge accommodates high speed steel or carbide tooling inserts and are designed to be indexable to provide four (4) cutting surfaces for each tip. The cutting blades as well as the cartridges are preset in the tool holders on a tool setting fixture before being placed in the machine. Once properly set, installation in the machine is a matter of a few minutes and can be done without the help of a skilled operator. No tool adjustments are necessary once the tools are set in the machine. The chamfer or beveling inserts can be indexed without removing the tooling from the machine. The parting tool holders must be replaced with preset units when they get dull. The simplicity of preset tooling provides a high degree of over-all machine efficiency for long as well as short production runs.

Gripper blocks are available for all diameters within the range of the machine. They are precision made for proper centering of the tube during the cutoff and beveling operations, and are easy to change, simply by removing four (4) screws on each side on the outboard chuck. The collet chuck is equipped with non-marking inserts which are easily removable from the front of the machine. Collet inserts must be changed for each diameter.



Tools, Slides and Grippers

include a choice of two feed and delivery tables



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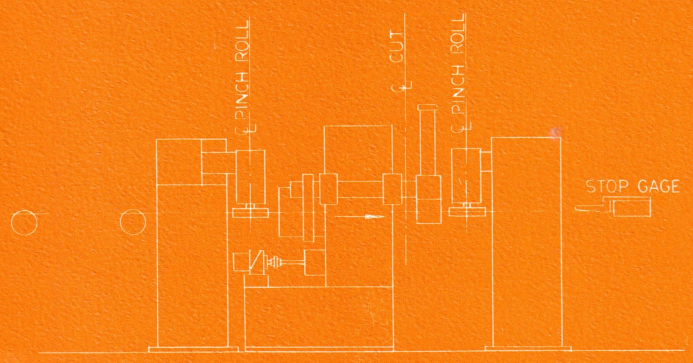
PINCH ROLL DRIVE TABLE

These tables are primarily designed for cutting off long lengths of tubing under high production conditions, such as parting off 48′ lengths into 24′ lengths. This equipment will handle outgoing cut lengths as short as 18″. The entry table consists of loading skids, loading escapements, support rollers and entry pinch rolls. The delivery table consists of delivery pinch rolls, support table and gage stop. The entry rollers are adjustable vertically to support the tube on the machine centerline. They can be coated with non-marking material to prevent tube marking when this is desirable. The delivery table consist of a trough lined with non-marking material to support a tube on the machine centerline. Hydraulically operated entry and delivery pinch rolls are adjustable and controlled with the machine cycle to provide full automatic operation including initial crop cut, subsequent length positioning against a gage stop and tail end crop cut. The stop gage is mounted on the delivery table and manually positioned for cutting off exact length of tubes. It extends and retracts automatically as required by the machine cycle.



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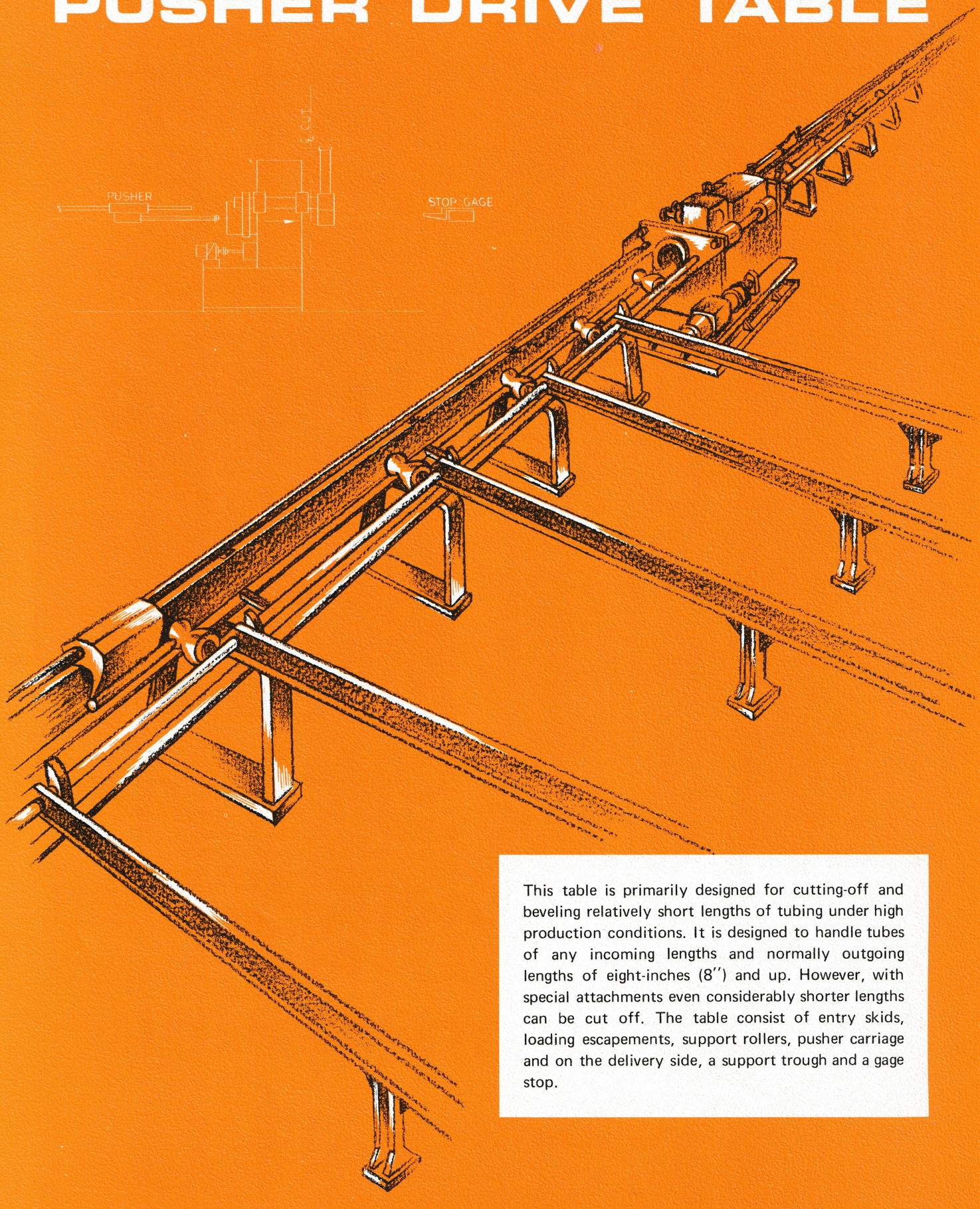
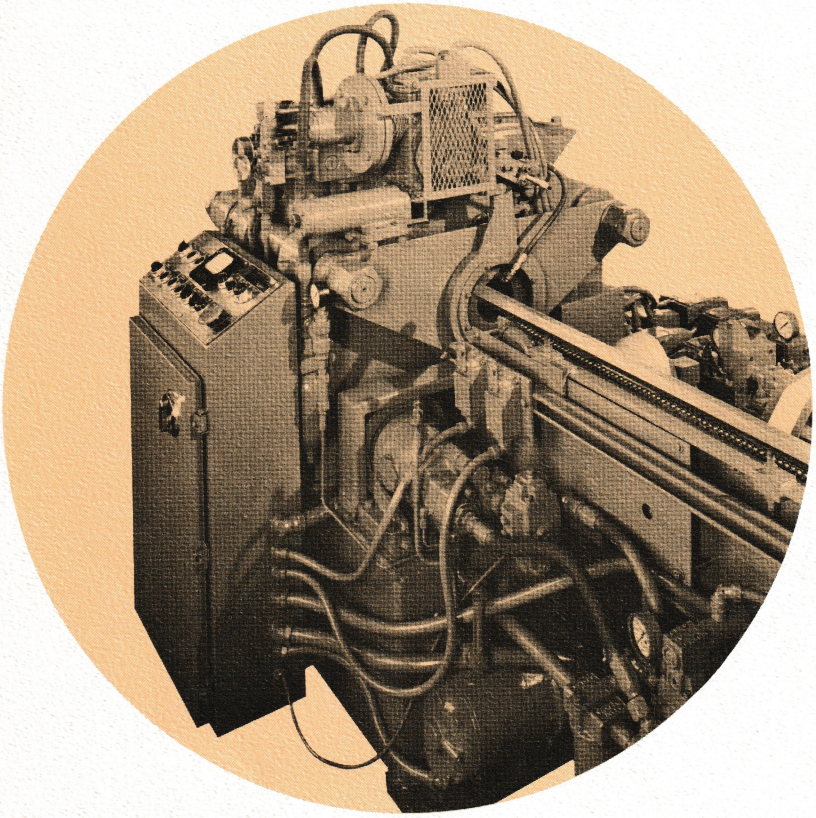
PUSHER DRIVE TABLE



This table is primarily designed for cutting-off and beveling relatively short lengths of tubing under high production conditions. It is designed to handle tubes of any incoming lengths and normally outgoing lengths of eight-inches (8″) and up. However, with special attachments even considerably shorter lengths can be cut off. The table consist of entry skids, loading escapements, support rollers, pusher carriage and on the delivery side, a support trough and a gage stop.

VERSACUT 300 & 600 SYSTEM IS FULLY HYDRAULIC

....with an automatic feeder capacity of 30' stock



These machines are easy to adjust and tool-up. They can cut and bevel both ends of cold finished tubing to exact lengths at high production rates.

These machines are heavy duty machine tools with hardened and ground slideways and cams. The hydraulic valves are manifold mounted for quick maintenance. All electrical controls are centralized and within the reach of machine adjustments.

The machine is suitable for custom tubing cut-off, coupling cut-off, A P I line pipe, casing and tubing cut-off and beveling etc.

Submit your requirements for an accurate proposal.

SPECIFICATIONS

	VERSACUT MODEL 300	VERSACUT MODEL 600
Normal Capacity (Tubing) Normal Capacity (Solid)	½" to 3" O.D. 3" O.D. Maximum	1-½" to 6" O.D. 3-½" O.D. Maximum
Extended Capacity (Tubing)	½" to 4" O.D.	½" to 6" O.D.
Spindle RPM	125 to 500	125 to 500
Spindle HP	15	30
Cut-off Tools	1/8"	3/16"
Beveling Tools	Custom	Custom
Std. Pusher Table, Incoming Length	30' STD.	30' STD.
Std. Pinch Roll Table, Incoming Length	50' STD.	50' STD.

Specifications above are for Standard machines. The Standard machines can be modified to meet your exact requirements. Larger machines are available on special order.

FOR FURTHER DETAILS, CONTACT:
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